Science and Technology Resources

Resource Title	Description	ISBN #/ weblink
Science for All Americans	A Project 2061 resource describing the knowledge and skills of a scientifically literate high school graduate.	0-19-506771-1 http://www.project2061.org/publications/sfaa/online/sfaatoc.htm
Science Matters	A resource describing the knowledge adults need to understand science and technology in the world around them.	0-385-26108-X
Benchmarks for Science Literacy	The standards developed by Project 2061.	0-19-5089863 http://www.project2061.org/publications/bsl/online/bolintro.htm
National Science Education Standards	The standard developed by the National Research Council. This document includes a description of standards for teaching as well as a description of student understandings as included in the Benchmarks.	0-309-05326-9 http://www.nap.edu/readingroom/books/nses/
Making Sense of Secondary Science	A collection of research on student cognition.	0-415-097657
Atlas of Science Literacy	A Project 2061 resource which visually displays how the knowledge and skills identified in the Benchmarks for Science Literacy build upon and connect with each other.	0-87168-668-6
Learning Results: Parameters for Essential Instruction	Maine's learning standards to guide essential instruction and curriculum development.	http://www.maine.gov/education/lres/pei/index.html
Curriculum Topic Study	A guide to deepening adult content knowledge of science	1-4129-0892-2

	topics by using national standards and other resources. Written by Page Keeley.	
Taking Science to School	National Academy of Science report describing the research related to effective elementary science education practice. The report explores what young people know and how they learn.	(executive summary) http://www.nap.edu/catalog/11625.html Note: Executive summary available at bottom of page.
Ready, Set, Science!	National Academy of Science companion to Taking Science to School. This resource describes classroom implementation strategies for applying the research and recommendations of Taking Science to School.	(executive summary) http://www.nap.edu/catalog.php?record_id=11882 Note: Executive summary available at bottom of page.
America's Lab Report	National Academy of Science report describing the research and recommendations related to effective middle school and high school science lab practices.	(executive summary) http://www.nap.edu/catalog.php?record_id=11311 Note: Executive summary available at bottom of page.
How People Learn	A National Academies of Science report which focuses on learning research.	http://www.maine.gov/education/lres/pei/cross_content.pdf
How Students Learn: Science in the Classroom	A National Academies of Science report which focuses on developing effective curricula and teaching.	10: 0-309-08950-6
Linking Science & Literacy	Power point presentation about the Imperial Valley Science Project and student achievement increases in literacy, mathematics and science.	http://csmp.ucop.edu/csp/imperial-valley/longbeach.htm
Helping English Learners Increase Achievement Through Inquiry-Based Science	Article on the Imperial Valley Project.	http://brj.asu.edu/content/vol26_no2/pdf/ART2.PDF

Instruction		
Incovering Student Ideas in Science Vol 1 and 2	A collection of formative assessments to help uncover student preconceptions. It has great teacher guides with a wealth of research embedded.	9780873552738
Picture Perfect Science Lessons: Using Children's Books to Guide Inquiry	Collection of fiction and nonfiction books linked to science inquiry and activities to go with them.	0-87355-243-1
MLR Cross Content Connection	Document which outlines significant integration points across the content areas of the *Learning Results: Parameters for Essential Instruction*.	http://www.maine.gov/education/lres/pei/cross_content.pdf
Science, Evolution, and Creationism	This seventy page document discusses Evolution and the Nature of Science, The Evidence for Biological Evolution, and Creationist Perspectives.	http://nap.edu/sec